



## IES INDOOR REPORT

PHOTOMETRIC FILENAME : BS830LEDHOWT4022ACW-120-277V\_P.IES

### DESCRIPTION INFORMATION (From Photometric File)

IESNA:LM-63-2002

[TESTLAB] Photopia 2018.1.0 see: [www.ltioptics.com/ies](http://www.ltioptics.com/ies)

[ISSUEDATE]

[TESTDATE] Fri Aug 24 10:24:04 2018

[TEST] 1

[MANUFAC] BEGHELLI

[LUMCAT]

[LUMINAIRE] BS830LEDHOWT4022ACW-120-277[\_P

[LAMP] LED 0.195W White 5630 package (65mA)

[LAMPCAT] SPMWHT541MD-3900K

[OTHER]

IESNA:LM-63-2002[TEST] 6,552

[TESTLAB] CSA Group

[ISSUEDATE] 7/24/2013 1:09:24 PM

[MANUFAC] Beghelli

[OTHER] Luminous shape: Rectangle

[OTHER] Luminous dimensions (feet)

[OTHER] 0 - 180 Axis: 4.2

[OTHER] 90 - 270 Axis: 0.6

[OTHER] Height: 0.1

### CHARACTERISTICS

|                                 |                     |
|---------------------------------|---------------------|
| Lumens Per Lamp                 | N.A. (absolute)     |
| Total Lamp Lumens               | N.A. (absolute)     |
| Luminaire Lumens                | 18339               |
| Total Luminaire Efficiency      | N.A.                |
| Luminaire Efficacy Rating (LER) | 118                 |
| Total Luminaire Watts           | 155                 |
| Ballast Factor                  | 1.00                |
| CIE Type                        | Direct              |
| Spacing Criterion (0-180)       | 1.12                |
| Spacing Criterion (90-270)      | 1.12                |
| Spacing Criterion (Diagonal)    | 1.24                |
| Basic Luminous Shape            | Rectangular w/Sides |
| Luminous Length (0-180)         | 1.88 ft             |
| Luminous Width (90-270)         | 1.88 ft             |
| Luminous Height                 | 1.59 ft             |

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**LUMINANCE DATA (cd/sq.m)**

| Angle In<br>Degrees | Average<br>0-Deg | Average<br>45-Deg | Average<br>90-Deg |
|---------------------|------------------|-------------------|-------------------|
| 45                  | 10478            | 8805              | 10478             |
| 55                  | 5308             | 4327              | 5308              |
| 65                  | 3069             | 2422              | 3069              |
| 75                  | 2902             | 2208              | 2902              |
| 85                  | 1910             | 1389              | 1910              |

CANDELA TABULATION

|     | <u>0</u> |
|-----|----------|
| 0   | 8468.662 |
| 5   | 8379.690 |
| 10  | 8156.507 |
| 15  | 7842.278 |
| 20  | 7363.785 |
| 25  | 6771.051 |
| 30  | 6150.337 |
| 35  | 5577.901 |
| 40  | 5073.511 |
| 45  | 4474.016 |
| 50  | 3415.946 |
| 55  | 2199.451 |
| 60  | 1293.241 |
| 65  | 1194.337 |
| 70  | 1176.112 |
| 75  | 1021.895 |
| 80  | 803.141  |
| 85  | 581.429  |
| 90  | 392.516  |
| 95  | 243.588  |
| 100 | 138.686  |
| 105 | 75.425   |
| 110 | 42.687   |
| 115 | 26.102   |
| 120 | 17.800   |
| 125 | 12.865   |
| 130 | 9.702    |
| 135 | 7.673    |
| 140 | 6.397    |
| 145 | 5.608    |
| 150 | 4.997    |
| 155 | 4.705    |
| 160 | 5.741    |
| 165 | 6.034    |
| 170 | 6.618    |
| 175 | 6.450    |
| 180 | 12.112   |

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**ZONAL LUMEN SUMMARY**

| Zone    | Lumens   | %Lamp | %Fixt  |
|---------|----------|-------|--------|
| 0-20    | 2995.2   | N.A.  | 16.30  |
| 0-30    | 6112.9   | N.A.  | 33.30  |
| 0-40    | 9617.07  | N.A.  | 52.40  |
| 0-60    | 15007.45 | N.A.  | 81.80  |
| 0-80    | 17275.25 | N.A.  | 94.20  |
| 0-90    | 17918.15 | N.A.  | 97.70  |
| 10-90   | 17125.18 | N.A.  | 93.40  |
| 20-40   | 6621.87  | N.A.  | 36.10  |
| 20-50   | 9983.95  | N.A.  | 54.40  |
| 40-70   | 6595.33  | N.A.  | 36.00  |
| 60-80   | 2267.8   | N.A.  | 12.40  |
| 70-80   | 1062.85  | N.A.  | 5.80   |
| 80-90   | 642.89   | N.A.  | 3.50   |
| 90-110  | 366.21   | N.A.  | 2.00   |
| 90-120  | 394.30   | N.A.  | 2.20   |
| 90-130  | 406.29   | N.A.  | 2.20   |
| 90-150  | 415.97   | N.A.  | 2.30   |
| 90-180  | 420.71   | N.A.  | 2.30   |
| 110-180 | 54.50    | N.A.  | 0.30   |
| 0-180   | 18338.85 | N.A.  | 100.00 |

Total Luminaire Efficiency = N.A.%

**ZONAL LUMEN SUMMARY**

| Zone    | Lumens  |
|---------|---------|
| 0-10    | 792.97  |
| 10-20   | 2202.23 |
| 20-30   | 3117.7  |
| 30-40   | 3504.17 |
| 40-50   | 3362.08 |
| 50-60   | 2028.3  |
| 60-70   | 1204.95 |
| 70-80   | 1062.85 |
| 80-90   | 642.89  |
| 90-100  | 278.04  |
| 100-110 | 88.16   |
| 110-120 | 28.09   |
| 120-130 | 11.99   |
| 130-140 | 6.12    |
| 140-150 | 3.56    |
| 150-160 | 2.32    |
| 160-170 | 1.72    |
| 170-180 | 0.69    |

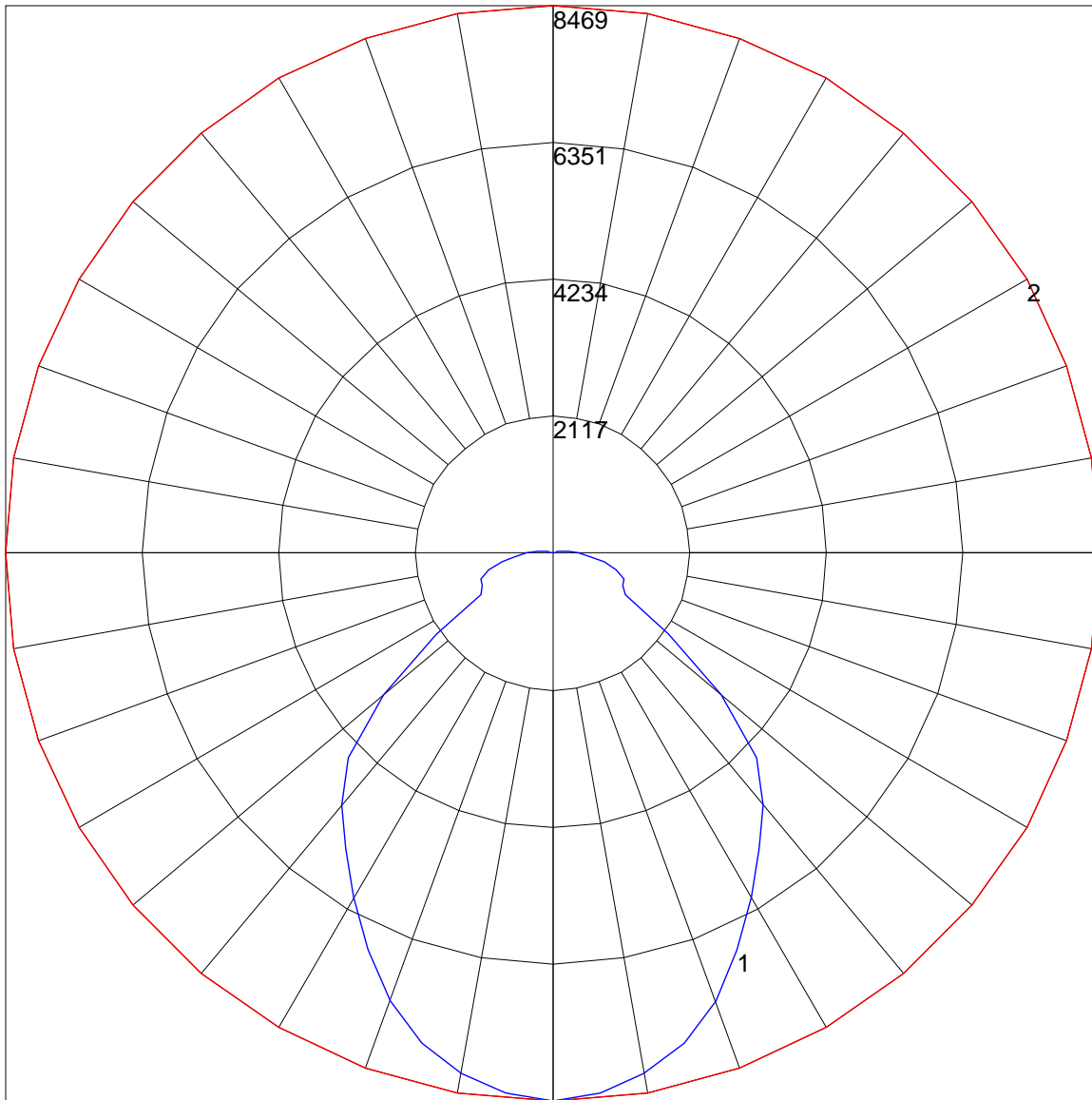
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COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

| RC | 80  |     |     |     | 70  |     |     |     | 50  |     |     | 30  |     |     | 10  |     |     | 0  |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|----|
| RW | 70  | 50  | 30  | 10  | 70  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 50  | 30  | 10  | 0  |
| 0  | 119 | 119 | 119 | 119 | 115 | 115 | 115 | 115 | 110 | 110 | 110 | 105 | 105 | 105 | 100 | 100 | 100 | 98 |
| 1  | 109 | 104 | 100 | 96  | 106 | 101 | 98  | 94  | 97  | 94  | 91  | 92  | 90  | 88  | 89  | 87  | 85  | 82 |
| 2  | 100 | 92  | 85  | 80  | 97  | 90  | 84  | 79  | 86  | 81  | 77  | 82  | 78  | 75  | 79  | 76  | 73  | 71 |
| 3  | 92  | 82  | 74  | 68  | 89  | 80  | 73  | 67  | 77  | 71  | 66  | 74  | 69  | 65  | 71  | 67  | 63  | 61 |
| 4  | 85  | 74  | 65  | 59  | 82  | 72  | 64  | 59  | 69  | 63  | 58  | 67  | 61  | 57  | 64  | 60  | 56  | 53 |
| 5  | 78  | 66  | 58  | 52  | 76  | 65  | 57  | 51  | 63  | 56  | 51  | 61  | 55  | 50  | 59  | 53  | 49  | 47 |
| 6  | 73  | 60  | 52  | 46  | 71  | 59  | 51  | 46  | 57  | 50  | 45  | 55  | 49  | 45  | 54  | 48  | 44  | 42 |
| 7  | 68  | 55  | 47  | 41  | 66  | 54  | 46  | 41  | 53  | 46  | 40  | 51  | 45  | 40  | 49  | 44  | 40  | 38 |
| 8  | 63  | 51  | 43  | 37  | 62  | 50  | 42  | 37  | 48  | 41  | 37  | 47  | 41  | 36  | 46  | 40  | 36  | 34 |
| 9  | 59  | 47  | 39  | 34  | 58  | 46  | 39  | 34  | 45  | 38  | 33  | 44  | 37  | 33  | 42  | 37  | 33  | 31 |
| 10 | 56  | 43  | 36  | 31  | 55  | 43  | 36  | 31  | 42  | 35  | 30  | 41  | 34  | 30  | 40  | 34  | 30  | 28 |

POLAR GRAPH



Maximum Candela = 8468.662 Located At Horizontal Angle = 0, Vertical Angle = 0  
# 1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)  
# 2 - Horizontal Cone Through Vertical Angle (0)